

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: EPHESUS

Report Number: P575206

Luminaire Tested: **EPH-VN-06-730-U-T3-HSS**

Issue Date: 10/19/2021



Test Information

Test Method: LM-79-08
Report Number: P575206
Test Lab: INNOVATION CENTER(G2)
Issue Date: 10/19/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: EPHEBUS
Catalog Number: EPH-VN-06-730-U-T3-HSS
Description: EPHEBUS LUMAVISION – Middle Tier Light Square Luminaire w/ T3 distribution lens and House Side Shield
Light Source: (96) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

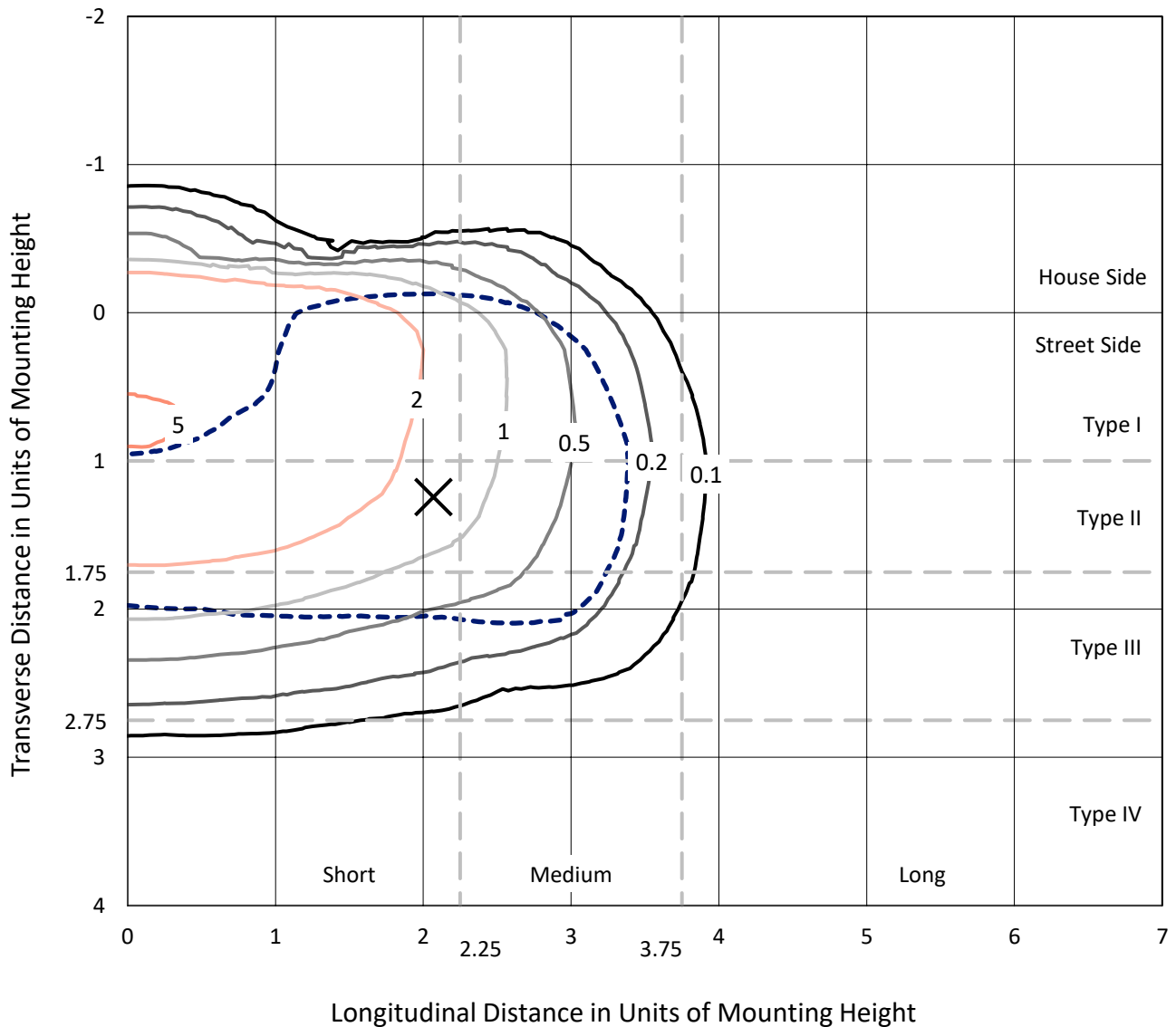
Lumens per Lamp: N/A
Luminaire Lumens: 30893.8 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 368.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

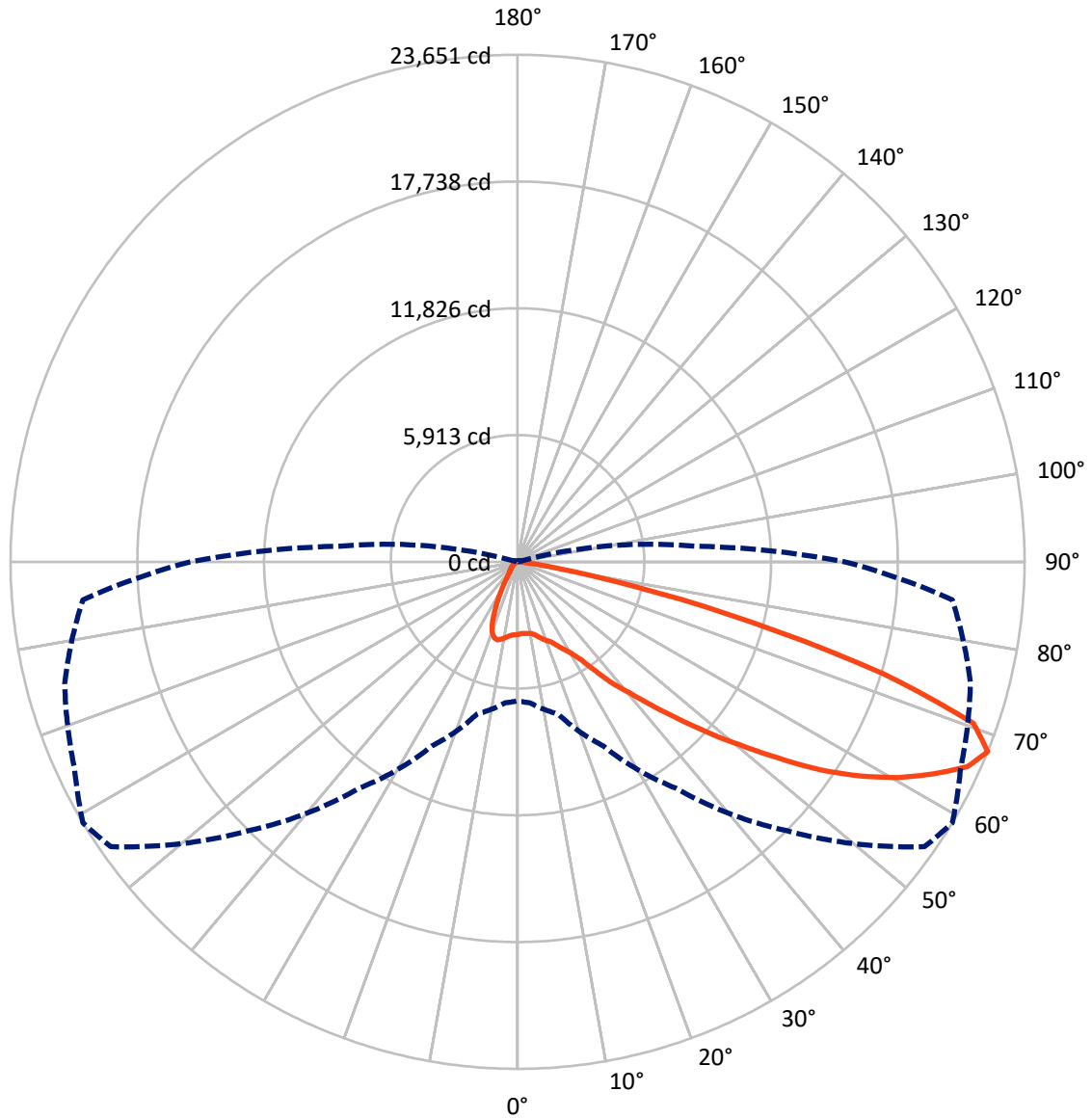
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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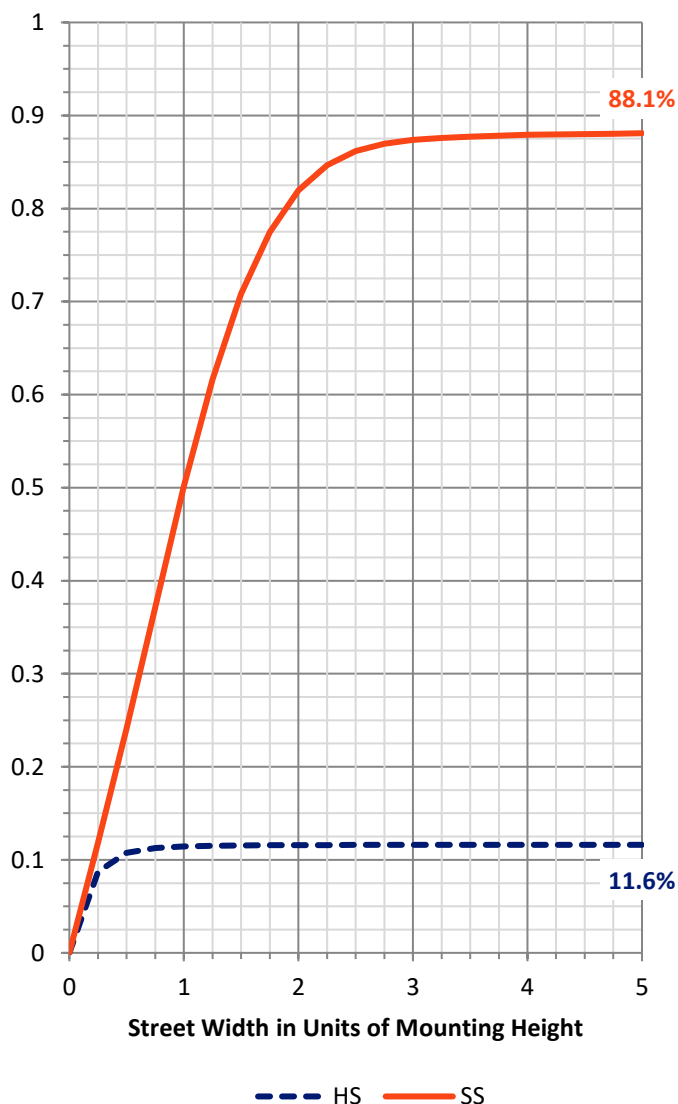
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3629.0	0.0	3629.0
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	27264.8	0.0	27264.8
	% Fixture	88.3	0.0	88.3
Total	Lumens	30893.8	0.0	30893.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.9	1.0
10°-20°	929.7	3.0
20°-30°	1625.0	5.3
30°-40°	2861.0	9.3
40°-50°	5057.3	16.4
50°-60°	8007.5	25.9
60°-70°	8882.5	28.8
70°-80°	3082.0	10.0
80°-90°	126.9	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	30893.8	100.0
0°-180°	30893.8	100.0

Coefficient of Utilization



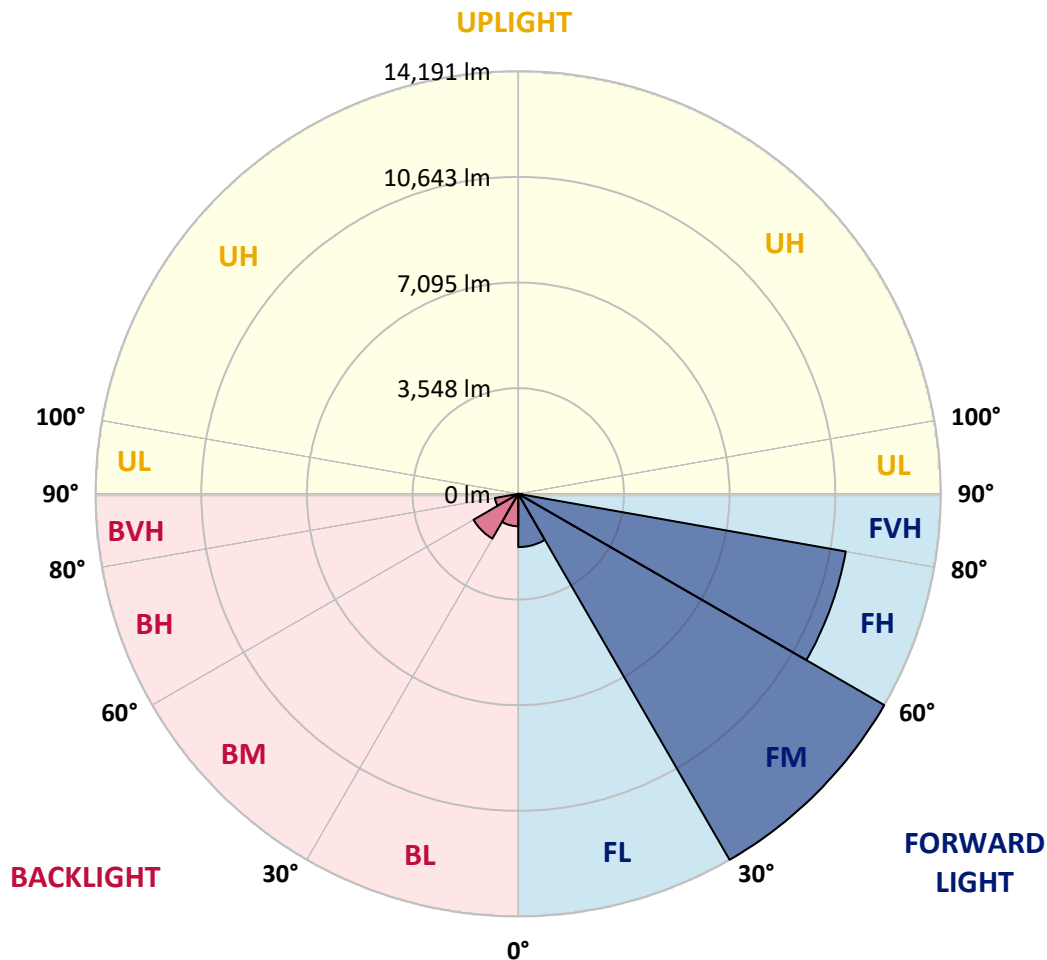
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1789.0	5.8			
FM (30°-60°)	14190.7	45.9			
FH (60°-80°)	11166.5	36.1			G4/12000
FVH (80°-90°)	118.7	0.4			G2/225
BL (0°-30°)	1087.6	3.5	B3/2500		
BM (30°-60°)	1735.1	5.6	B2/2500		
BH (60°-80°)	798.1	2.6	B2/1000		G2/1000
BVH (80°-90°)	8.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°
0°	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5
2.5°	3290.3	3243.4	3286.1	3290.3	3294.6	3333.0	3375.7	3345.8	3341.6	3375.7
5°	3158.0	3136.7	3187.9	3213.5	3256.2	3290.3	3358.6	3362.9	3367.2	3405.6
7.5°	3102.6	3051.4	3111.1	3141.0	3170.9	3251.9	3333.0	3375.7	3435.4	3482.4
10°	2991.6	3030.0	3047.1	3098.3	3183.7	3277.5	3375.7	3397.0	3529.3	3567.7
12.5°	3030.0	3055.6	3089.8	3102.6	3196.5	3337.3	3469.6	3478.1	3614.7	3781.1
15°	3128.2	3111.1	3123.9	3141.0	3251.9	3367.2	3580.5	3619.0	3747.0	3934.8
17.5°	3337.3	3307.4	3286.1	3281.8	3307.4	3414.1	3665.9	3781.1	3900.6	4156.7
20°	3862.2	3836.6	3751.2	3529.3	3452.5	3495.2	3768.3	3930.5	4096.9	4382.9
22.5°	4660.3	4685.9	4485.3	4173.7	3853.7	3687.2	3930.5	4071.3	4335.9	4698.7
25°	5603.4	5552.2	5308.9	4946.2	4442.6	4050.0	4190.8	4348.7	4673.1	4971.8
27.5°	6341.7	6282.0	6094.2	5654.6	5219.3	4583.4	4532.2	4630.4	5014.5	5283.3
30°	7071.5	7092.8	6964.8	6444.1	5906.4	5236.4	4912.0	4954.7	5249.2	5594.9
32.5°	8001.8	7950.6	7878.0	7421.4	6785.5	6068.6	5513.8	5445.5	5573.5	6030.2
35°	8868.1	8838.3	8740.1	8279.2	7724.4	6943.4	6401.4	6247.8	6217.9	6725.8
37.5°	9623.5	9572.3	9422.9	9128.5	8590.7	7933.5	7340.3	7203.8	7199.5	7549.4
40°	10259.4	10297.8	10280.7	9956.4	9661.9	9137.0	8228.0	8010.3	7993.3	8181.0
42.5°	11083.0	11172.7	11125.7	11061.7	10707.5	10502.6	9474.1	9141.3	8991.9	9376.0
45°	12329.2	12363.3	12393.2	12235.3	11881.1	11923.8	10763.0	10366.1	10327.7	10899.5
47.5°	13494.3	13404.6	13613.7	13622.3	13605.2	13408.9	12154.2	11859.7	11911.0	12346.3
50°	13784.5	14014.9	14591.0	14697.7	14975.1	15154.4	13699.1	13404.6	13490.0	13985.0
52.5°	14010.6	14360.6	14936.7	15717.7	16464.5	16891.3	15427.5	15188.5	15184.2	15487.2
55°	14407.5	14620.9	15120.2	16195.7	17616.8	18316.7	17510.1	17126.0	16780.3	16993.7
57.5°	14369.1	14450.2	15226.9	16554.1	18530.1	19801.8	19221.4	18854.4	18410.6	18286.8
60°	13694.8	13886.9	14757.5	16310.9	19093.4	20958.3	20817.5	20442.0	19678.0	19387.9
62.5°	12359.1	12615.1	13297.9	15457.4	18274.0	21018.1	21918.6	21777.7	20924.2	20403.5
65°	10016.1	10135.6	10920.9	13289.4	16421.8	20100.5	23220.2	23045.2	22260.0	21483.3
67.5°	6486.8	6602.0	7357.4	9486.9	12896.8	17732.0	23169.0	23651.2	22802.0	21867.3
70°	3064.2	3034.3	3738.4	5270.5	8262.1	13541.2	21602.8	22554.4	21833.2	19823.1
72.5°	934.6	1015.7	1553.4	2334.4	4242.0	8445.6	16934.0	17825.9	17599.7	15837.2
75°	414.0	448.1	610.3	955.9	1719.9	3465.3	10460.0	11253.7	11155.6	9341.8
77.5°	264.6	290.2	384.1	546.3	781.0	1101.0	4818.2	5590.6	5419.9	3281.8
80°	187.8	200.6	273.1	375.6	490.8	452.4	1660.1	1971.6	1890.6	891.9
82.5°	102.4	111.0	200.6	277.4	328.6	230.5	465.2	580.4	606.0	396.9
85°	38.4	46.9	123.8	196.3	170.7	106.7	136.6	166.4	217.6	217.6
87.5°	0.0	4.3	51.2	85.4	42.7	29.9	38.4	46.9	59.7	102.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3388.5	0°	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5	3388.5
3405.6	2.5°	3426.9	3397.0	3409.8	3431.2	3384.2	3409.8	3358.6	3397.0	3409.8	3358.6
3456.8	5°	3469.6	3499.5	3482.4	3448.2	3418.4	3426.9	3414.1	3384.2	3409.8	3418.4
3533.6	7.5°	3593.3	3559.2	3567.7	3529.3	3469.6	3465.3	3384.2	3362.9	3371.4	3380.0
3691.5	10°	3708.6	3729.9	3687.2	3657.4	3559.2	3495.2	3384.2	3264.7	3251.9	3200.7
3845.1	12.5°	3913.4	3862.2	3845.1	3747.0	3648.8	3435.4	3196.5	3012.9	2859.3	2803.8
4092.7	15°	4084.1	4075.6	4045.7	3896.3	3670.2	3281.8	2829.4	2402.7	2108.2	1924.7
4237.8	17.5°	4318.8	4280.4	4225.0	3990.2	3512.3	2880.7	2108.2	1570.5	1276.0	1160.8
4515.2	20°	4498.1	4468.2	4391.4	3968.9	3226.3	2146.6	1305.9	998.6	926.1	904.7
4818.2	22.5°	4758.4	4664.5	4519.4	3862.2	2705.7	1429.7	938.9	891.9	879.1	862.1
5018.7	25°	4984.6	4899.2	4596.2	3678.7	1929.0	947.4	870.6	845.0	823.7	802.3
5232.1	27.5°	5185.2	5078.5	4677.3	3303.1	1207.7	815.1	806.6	776.7	734.0	699.9
5479.6	30°	5381.5	5257.7	4698.7	2599.0	815.1	738.3	717.0	670.0	614.5	567.6
5893.6	32.5°	5710.1	5560.7	4668.8	1856.4	704.2	657.2	610.3	554.8	473.7	435.3
6486.8	35°	6222.2	5996.0	4630.4	1092.5	631.6	580.4	507.8	435.3	375.6	337.1
7088.5	37.5°	6811.1	6418.5	4519.4	729.8	580.4	512.1	418.2	345.7	294.5	264.6
7912.2	40°	7686.0	7037.3	4092.7	597.5	516.4	435.3	337.1	273.1	234.7	213.4
9132.7	42.5°	8650.5	7745.8	3435.4	537.7	456.6	371.3	268.9	221.9	192.0	170.7
10353.3	45°	9807.0	8484.1	2650.2	490.8	405.4	307.3	221.9	179.2	153.6	136.6
11782.9	47.5°	11095.8	9154.1	1788.1	443.8	341.4	251.8	183.5	136.6	111.0	98.2
13340.6	50°	12248.1	9747.3	1139.5	388.4	298.7	209.1	149.4	111.0	89.6	72.5
14599.6	52.5°	13293.7	10199.6	785.2	341.4	256.1	170.7	123.8	89.6	68.3	55.5
15905.5	55°	14364.8	10430.1	580.4	294.5	221.9	145.1	102.4	81.1	59.7	46.9
17407.7	57.5°	15244.0	10528.2	443.8	256.1	187.8	115.2	89.6	68.3	51.2	38.4
18559.9	60°	15995.1	10481.3	345.7	213.4	149.4	98.2	76.8	55.5	42.7	29.9
20062.1	62.5°	16434.6	10199.6	273.1	183.5	119.5	85.4	64.0	46.9	29.9	21.3
20834.6	65°	16443.2	9602.2	213.4	136.6	89.6	72.5	55.5	38.4	21.3	8.5
20352.3	67.5°	15265.3	8309.1	170.7	106.7	72.5	55.5	42.7	29.9	8.5	0.0
16904.1	70°	11940.8	6286.2	140.8	85.4	59.7	46.9	29.9	17.1	4.3	0.0
11283.6	72.5°	7609.2	3764.1	115.2	68.3	51.2	34.1	21.3	12.8	0.0	0.0
5151.0	75°	3183.7	1160.8	89.6	59.7	38.4	25.6	17.1	4.3	0.0	0.0
1348.6	77.5°	819.4	367.0	72.5	51.2	38.4	21.3	12.8	4.3	0.0	0.0
362.7	80°	243.3	136.6	59.7	42.7	29.9	17.1	8.5	4.3	0.0	0.0
175.0	82.5°	111.0	81.1	51.2	38.4	25.6	17.1	8.5	0.0	0.0	0.0
81.1	85°	42.7	25.6	25.6	21.3	21.3	12.8	4.3	0.0	0.0	0.0
29.9	87.5°	17.1	8.5	8.5	8.5	4.3	4.3	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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